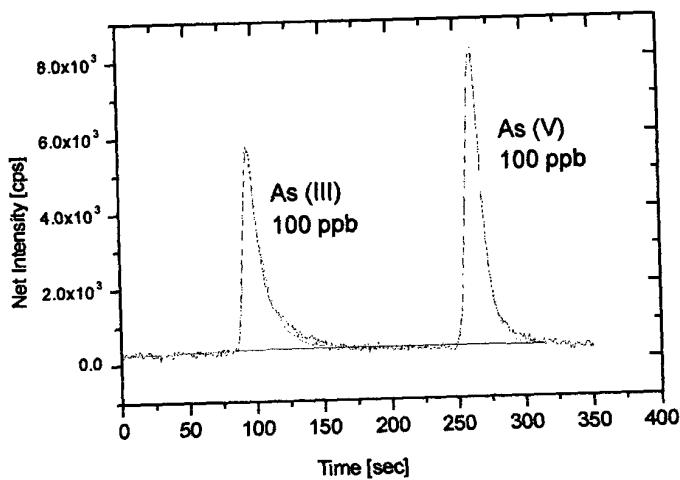


**Figure 1**

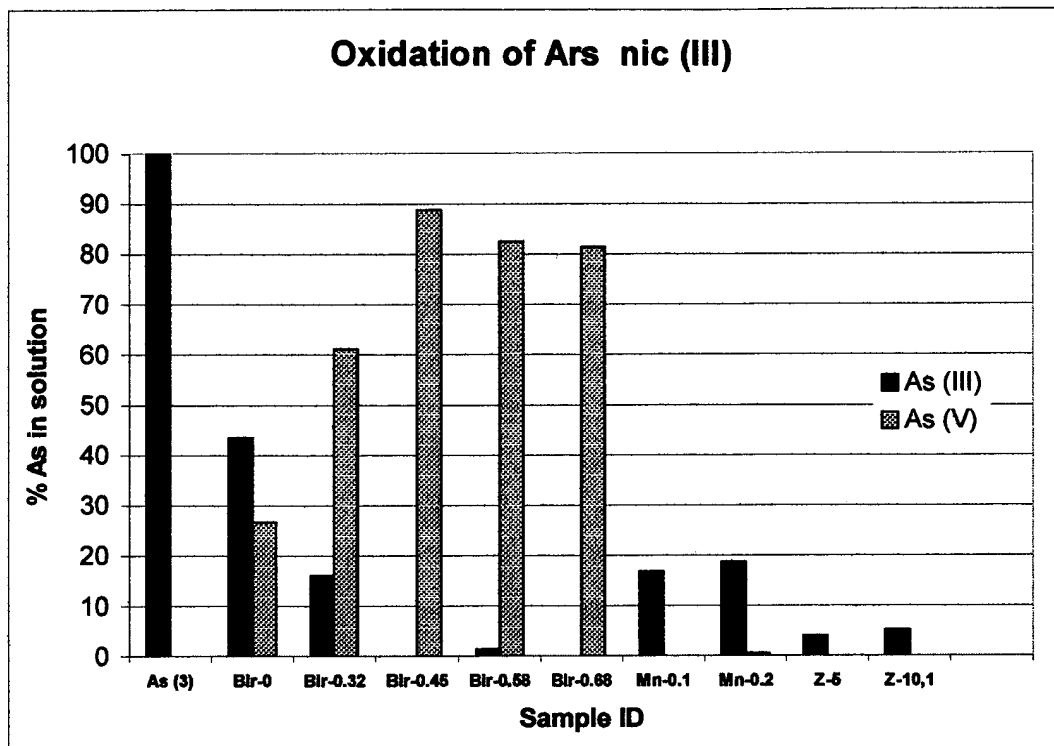
As Specie Analysis: IC-USN-ICP-OES



Analysis Conditions

- Ultrasonic Nebulizer, Axial View
- AS4A column, 1.5 ml flow rate
- Injection Volume 0.5 ml
- Det. limit ~3 ppb

Figure 2



**Figure 3.**

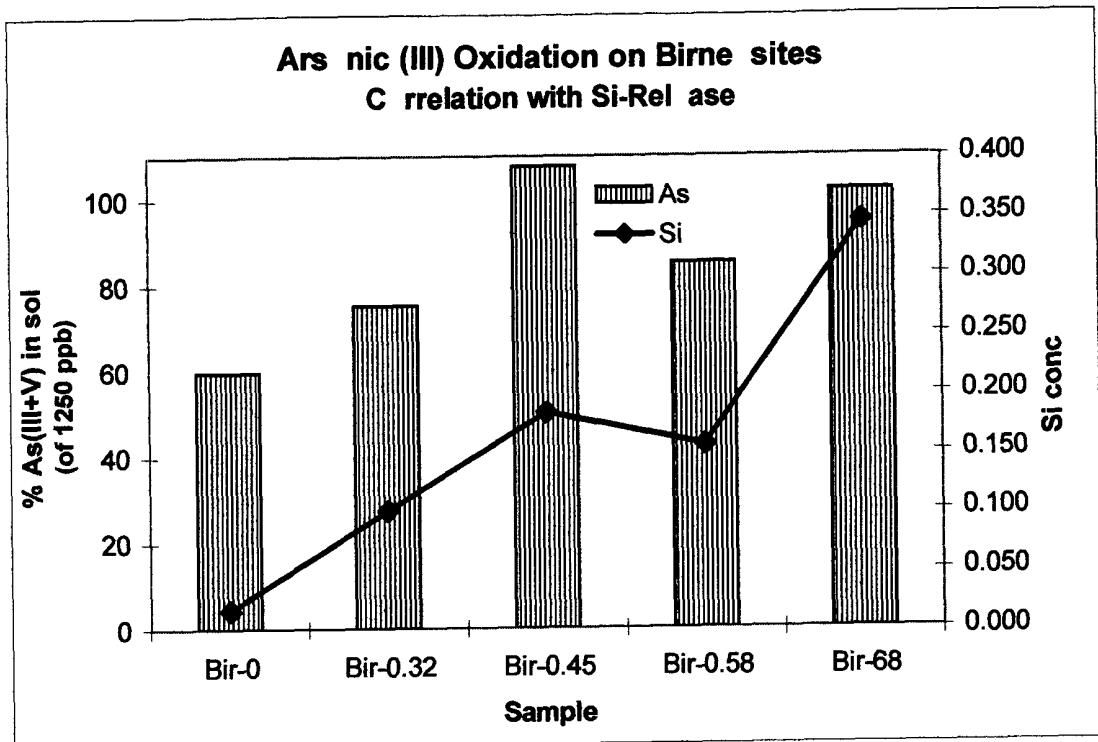
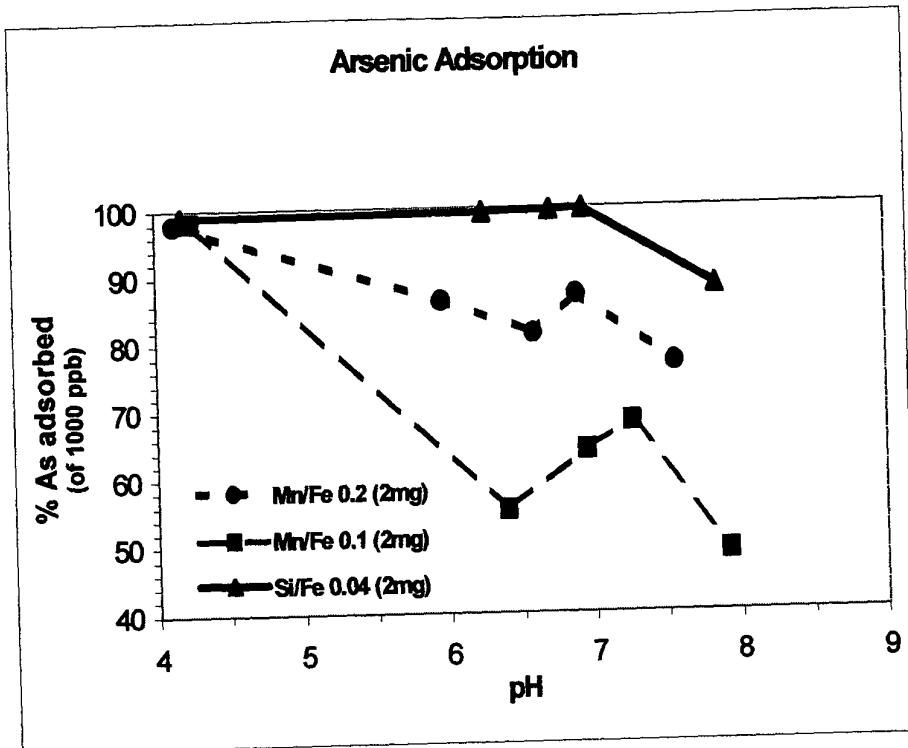


Figure 4.



**Figure 5.**

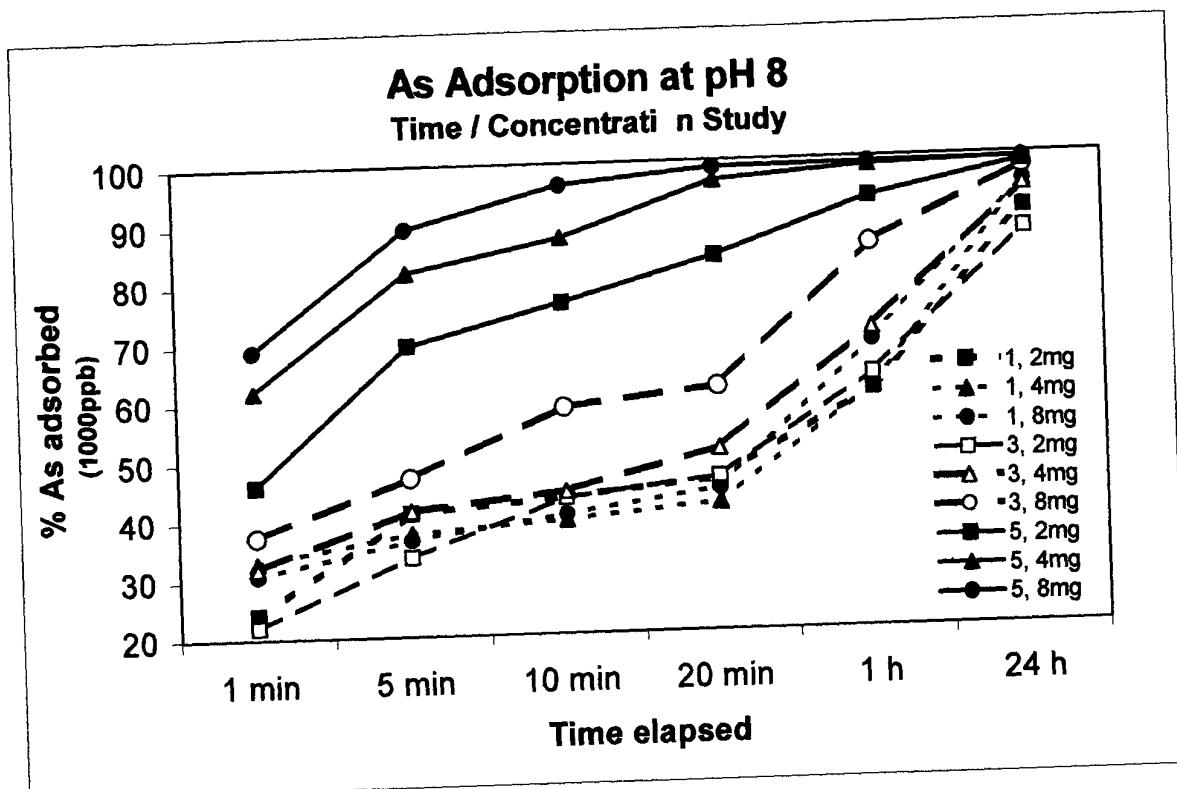
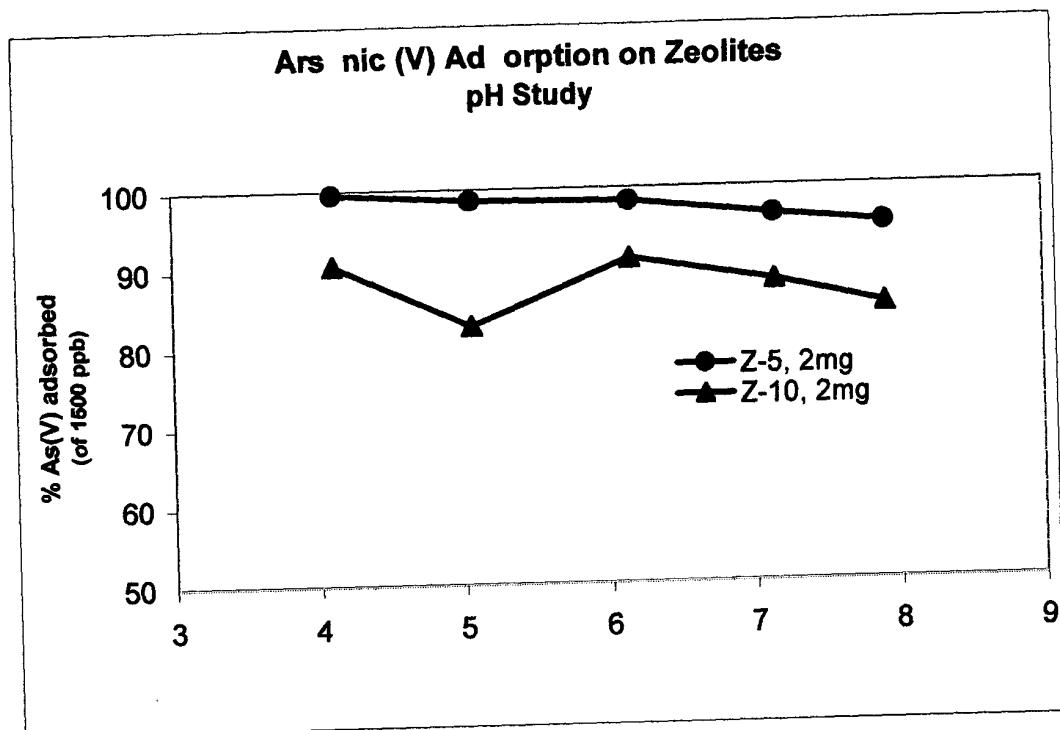
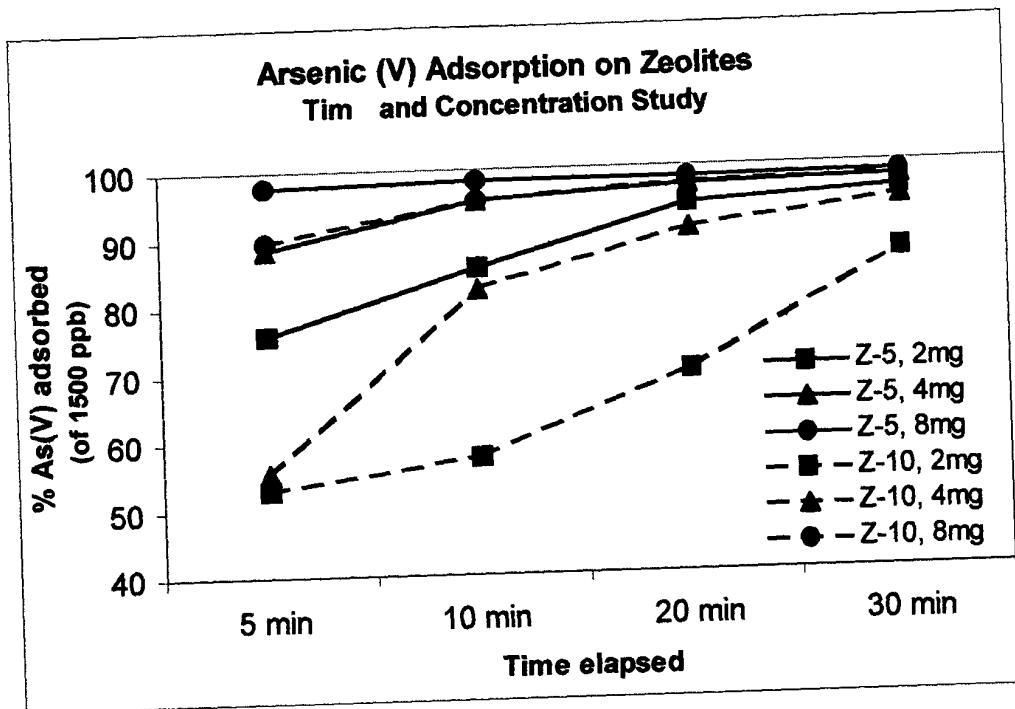


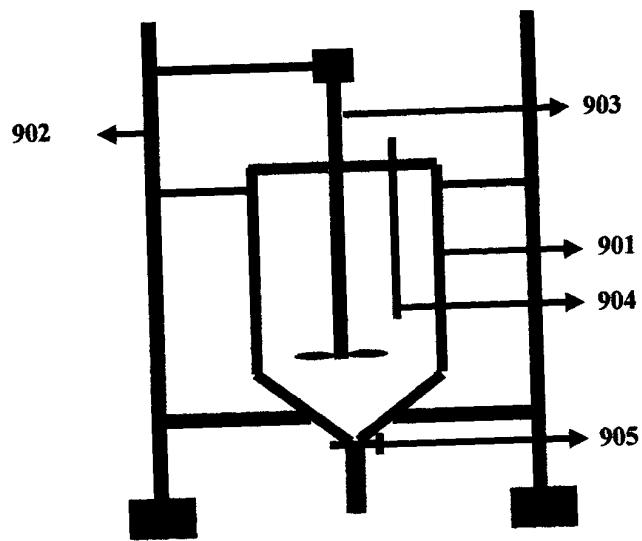
Figure 6.



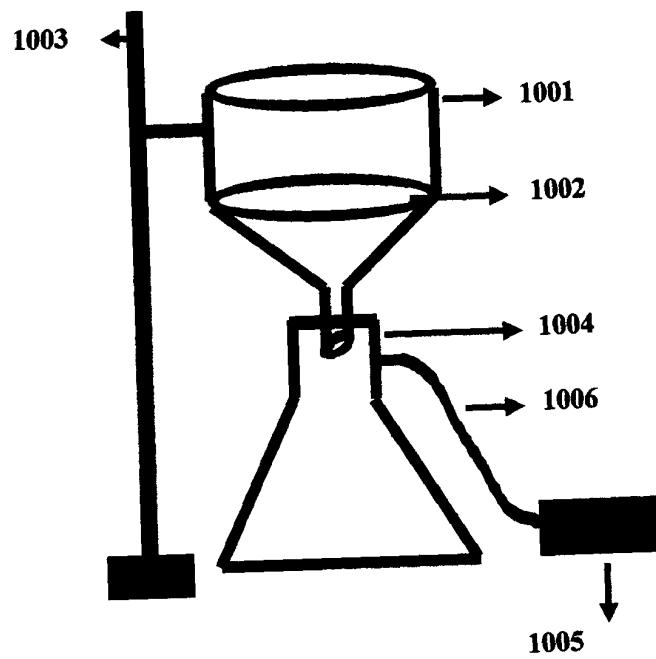
**Figure 7.**



**Figure 8.**



**Figure 9.**

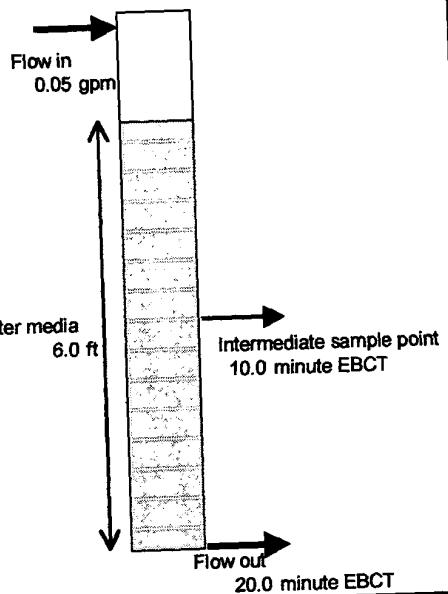


**Figure 10.**

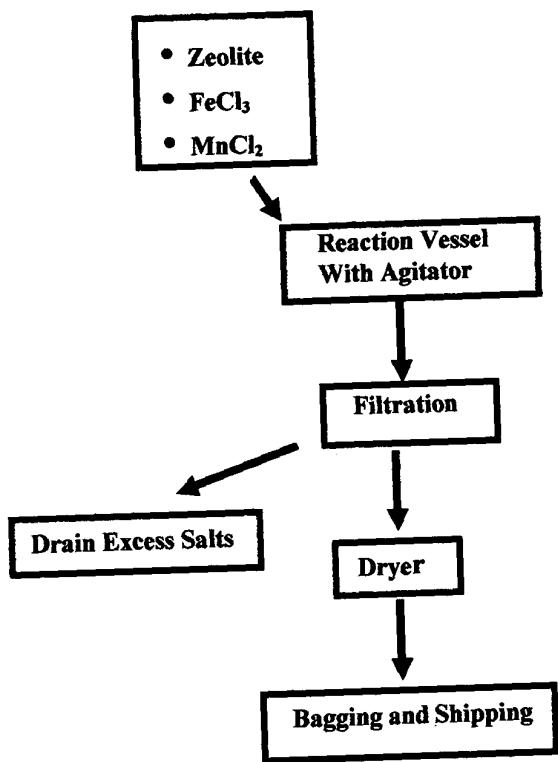
S

### **Arsenic Filter Pilot Column**

Column diameter	2.0 inches
Cross sectional area	0.02 sq.ft
Column height	8.0 feet
Column volume	0.17 cu.ft
Column volume	1.31 gal
Depth of filter media	6.0 feet
Volume of filter media	0.13 cu.ft
Volume of filter media	0.98 gal
Empty bed contact time (EBCT)	20.0 min
Half EBCT	10.0 min
Flow rate	0.05 gpm
Velocity above media	0.0050 ft/sec
Velocity above media	3.6 inch/min
Loading rate	2.2 gpm/ft <sup>2</sup>
Water treated per day	71 gal/day
Bed volumes per day	72 Bed volumes/day
Assumed bed life	10,000 Bed volumes
Estimated media life	139 days



**Figure 11.**



**Figure 12.**